ABSTRACT OF THE DISCLOSURE

A method and an arrangement for optimizing the image quality of movable subjects imaged with a microscope system are proposed. The microscope system encompasses at least one objective that defines an image window. Motions of the subjects being observed are captured in the image frame. A computer system, having a means for determining a respective displacement vector field from a comparison of the respective pixels of two chronologically successive images, generates a trajectory from the synopsis of the displacement vector field of all the acquired images. A means for applying an operation to the image data along a trajectory is also provided.

(FIG. 4)